1/2

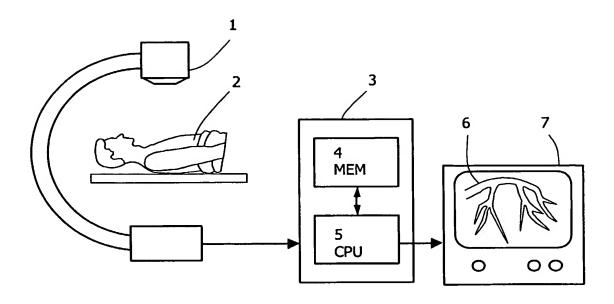


Fig. 1

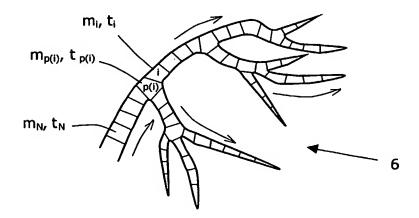


Fig. 2

2/2

$$\vec{a} = \begin{pmatrix} \vec{t} \\ \vec{e}^{+} \\ \vec{e}^{-} \\ \vec{\Delta} \\ \vec{\delta}^{+} \\ \vec{\delta}^{-} \end{pmatrix}$$

$$(26) \qquad \vec{c} = \begin{pmatrix} \vec{0}_{N} \\ \vec{1}_{N} \\ \vec{0}_{N-1} \\ \lambda \vec{1}_{I} \\ \lambda \vec{1}_{I} \end{pmatrix}$$

$$(28)$$

$$\vec{b} = \begin{pmatrix} \vec{m} \\ \vec{0}_{N-1} \\ \vec{0}_{I} \end{pmatrix}$$

$$(27)$$

$$S = \begin{pmatrix} 1_{N \times N} & 1_{N \times N} & -1_{N \times N} & 0_{N \times N-1} & 0_{N \times I} & 0_{N \times I} \\ P & 0_{N-1 \times N} & 0_{N-1 \times N} & -1_{N-1 \times N-1} & 0_{N \times I} & 0_{N \times I} \\ C & 0_{I \times N} & 0_{I \times N} & 0_{I \times N-1} & 1_{I \times I} & -1_{I \times I} \end{pmatrix}$$

$$C_{ij} = \begin{cases} 2 & \text{if } i = j \\ -1 & \text{if } p(i) = j \\ -1/|\{k|p(k) = i\}| & \text{if } p(j) = i \end{cases}$$

$$(30)$$

$$\vec{a} = \begin{pmatrix} \vec{t} \\ \vec{e}^{+} \\ \vec{e}^{-} \\ \vec{\Delta} \\ \vec{\delta}^{+} \\ \vec{\delta}^{-} \end{pmatrix}$$

$$\vec{b} = \begin{pmatrix} \vec{m} \\ \vec{0}_{N-1} \\ \vec{0}_{I} \\ sE^{(0)} \end{pmatrix}$$

$$(32)$$

$$\vec{c} = \begin{pmatrix} \vec{0}_{N} \\ \vec{0}_{N} \\ \vec{0}_{N} \\ \vec{0}_{N-1} \\ \vec{1}_{I} \\ \vec{1}_{I} \end{pmatrix}$$

$$(34)$$

$$S = \begin{pmatrix} 1_{N \times N} & 1_{N \times N} & -1_{N \times N} & 0_{N \times N-1} & 0_{N \times I} & 0_{N \times I} \\ P & 0_{N-1 \times N} & 0_{N-1 \times N} & -1_{N-1 \times N-1} & 0_{N \times I} & 0_{N \times I} \\ C & 0_{I \times N} & 0_{I \times N} & 0_{I \times N-1} & 1_{I \times I} & -1_{N-M \times I} \\ 0_{1 \times N} & 1_{1 \times N} & -1_{1 \times N} & 0_{1 \times N-1} & 0_{1 \times I} & 0_{1 \times I} \end{pmatrix}$$
(35)

$$t_{i}^{(1)} = \begin{cases} t_{i}^{(0)} & \text{if } i < N \\ t_{N}^{(0)} - (s-1)E^{(0)} & \text{if } i = N \text{ and } t_{N} \le m_{N} \\ t_{N}^{(0)} - 2(t_{N}^{(0)} - m_{N}) - (s-1)E^{(0)} & \text{if } i = N \text{ and } t_{N} > m_{N} \end{cases}$$
(36)

Fig. 3